FEA	EATURE: Klamath River Dams Removal				PROJECT:						
					Klamath	River					
		al Removal			Oregon						
	_		n & Powerplant Removal	WOID:	AF652		ATE LEVEL	Feasibility			
			igh- Escalation NOT Incuded	REGION			PRICE LEVE	Jul-10			
		Cycle - 50 Ye	ear	FILE:	FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\ Copco 1\No escalation shts\(Copco 1 MPH - Probable.xlsx)\(Life C						
	Summary				Summary	·					
PLANT	PAY ITEM		DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT			
		Periodic Cos	ts - Year 1					\$109,300.00			
		Periodic Cos	ts - Year 5					\$43,628.33			
		Periodic Cos	ts - Year 10					\$35,644.50			
		Periodic Cos	ts - Year 13					\$11,529.77			
		Periodic Cos	ts - Year 15					\$29,121.69			
		Periodic Cos	ts - Year 20					\$23,792.37			
		Periodic Cos	ts - Year 25			***************************************		\$26,537.06			
		Periodic Cost	ts - Year 30					\$15,881.69			
		Periodic Cos	ts - Year 35					\$12,975.13			
		Periodic Cost	ls - Year 38					\$4,196.99			
		Periodic Cost	ts - Year 40					\$10,600.97			
		Periodic Cost	s - Year 45					\$8,660.95			
		Periodic Cost	s - Year 50					0.00			
		Annual Costs	- Maintenance					\$1,514,164.00			
		(Assumes	s gov't service / construction contracts)								
		Subtotal 1						\$1,846,033.45			
		Mobilizati	on	5%	+/-			\$92,000.00			
		Subtotal 1 w	ith Mobilization					\$1,938,033.45			
		Escalation	n to Notice to Proceed (NTP): from Unit Price Leve	el (July, 2010) to	NTP (July, 2	2020)					
				at	per year for		months.				
		Subtotal 2 =	Subtotal 1 with Mobilization + Escalation to N	TP				\$1,938,033.45			
		Design Co	ontingencies	15%	+/-			\$317,391.55			
		Subtotal 3 =	Subtotal 2 + Design Contingencies					\$2,255,425.00			
		Allowance	for Procurement Strategies (APS)	2.0%	+/-			\$44,575.00			
		Type	roposal								
		Subtotal 4 =	Subtotal 3 + APS					\$2,300,000.00			
		CONTRACT	COST					\$2,300,000.00			
		Construct	ion Contingencies	25%	+/-			\$500,000.00			
		FIELD COST						\$2,800,000.00			
		Non-Conti	ract Costs	35%	+/-			\$1,000,000.00			
		(Environm	ental Cultural / Mitigation ~ 10%,								
		Engineerir	ng Design ~ 7%, Maintenance Service Contract ~	5%							
		Procureme	ent ~ 2%, Inspections ~ 10%								
		and Close	out ~ 1%)								
		CONSTRUCT	ION COST					\$3,800,000.00			
		Ref.: For appr	opriate use and terminology, see Reclamation Ma	nual, Directives	and Standard	ds FAC; 0	9-01, 09-02 and (09-03.			
	QUANTITIES				PRIC			ES			
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Rick Benik Stephen Latham				0 (areg Akins		Scan Cer	4/12 4/15/1			
DATE PREPARED PEER REVIEW / DATE				DATE PR	DATE PREPARED PEER REW			W / DATE			
03/24/11			Tom Hepler P.E. 3/25/11					NO 6/15/11			

FEAIU	FEATURE: Klamath River Dams Removal Partial Removal Option				PROJECT: Klamath River Oregon						
	Copco No. 1 Dam & Powerplant Removal Most Probable - Escalation NOT Incuded Life Cycle - 50 Year Summary			WOID:	AF652	ESTIMATE LEVEL:		Feasibility			
				REGION:	MP	UNIT P	RICE LEVEL:	Jul-10			
				FILE:	FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\01 escalation shts\[Copco 1 - MP - Probable.xlsx]Life Cycle Summary						
PLANT ACCOUNT	PAY ITEM		DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT			
		Periodic Cos	sts - Year 1					\$95,000.00			
		Periodic Cos	its - Year 8]		\$32,566.5			
		Periodic Cos	ts - Year 17					\$31,689.0			
		Periodic Cos	ts - Year 25					\$16,380.9			
		Periodic Cos	ts - Year 33					\$16,596.7			
		Periodic Cos	ts - Year 42					\$8,239.5			
		Periodic Cos	ts - Year 50	*****				0.0			
		Annual Costs	s - Maintenance			<u> </u>		\$525,752.0			
		(Assume	s gov't service / construction contrac	ots)							
		Subtotal 1			····			\$726,224.6			
		Mobilizati	ion	5%	+/-			\$36,000.0			
		Subtotal 1 w	vith Mobilization					\$762,224.6			
		Escalatio	n to Notice to Proceed (NTP), from U	Jnit Price Lev	el (July 2010)	to NTP (Ju	I ily 2020).	Ψ, σ <u>Ε</u> , <u>Ε</u> Ε 4.0			
			at	T 1	per year for	T	months.				
		Subtotal 2 = 3	Subtotal 1 with Mobilization + Escala	tion to NTP	•			\$762,224.6			
		Design C	ontingencies	10%	+/-			\$77,775.3			
	***************************************		Subtotal 2 + Design Contingencies					\$840,000.00			
			e for Procurement Strategies (APS)	0	+/-			40.10,000.0			
		 	of solicitation assumed: Competitive	e Request for	Proposal						
			Subtotal 3 + APS					\$840,000.00			
		CONTRACT	COST					\$840,000.00			
		 	tion Contingencies	20%	+/-			\$160,000.00			
		FIELD COST			.,			\$1,000,000.00			
			ract Costs	30%	+/-			\$500,000.00			
			nental Cultural / Mitigation ~ 7%,					Ψ500,000.00			
	***************************************		ng Design ~ 5%, Maintenance Service	Ce Contract	E0/						
			ent ~ 2%, Inspections ~ 10%	Ce Contract ~	J/6						
		· · · · · · · · · · · · · · · · · · ·	eout ~ 1%)								
		CONSTRUCT						£4 500 000 00			
		00110111001	101 0031					\$1,500,000.00			
		Note: intial es	timate completed 4/17/11, revised n	on-contract co	vete 5/12/11 d	esian cont	ingopolog conto 6/0/1:				
			ropriate use and terminology, see Re								
			NTITIES	ola mation ma	maan, Directive		RICES	7-02 and 03-03.			
			BY Q	4		CHEØKED /	/				
			Stephen Latham	$X \gamma$	Grog Alvina	ł	1. 110	m-(1x/11			
DATE PREPARED PEER REVIEW / DA				DATE PRE	Greg Akins PARED		PEER REVIEW /	DATE / /			
3/24/11			Tom Hepler P.E. 3/25/11				YW	4/15/11			

URE:		PROJECT:							
Klam	ath River Dams Removal	Klamath River Oregon							
Partia	al Removal Option								
	•	WOID:	AF652	ESTIM	IATE LEVEL:	Feasibility			
Most	Probable Low- Escalation NOT Incuded	REGION	MP	UNIT	PRICE LEVE	Jul-10			
Life C	Cycle - 50 Year	FILE:	U:\2011 Projects\Klamath\002		t Completed Sheets\MP MPL MPH\01 - Copo MPL - Probable.xlsx]Life Cycle Summary				
Sum	mary								
PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT			
	Periodic Costs - Year 1					\$81,800.00			
	Periodic Costs - Year 17					\$17,906.80			
	Periodic Costs - Year 25					\$5,460.30			
	Periodic Costs - Year 33					\$9,378.46			
	Periodic Costs - Year 50					0.00			
	(Assumes gov't service / construction contracts)								
	Annual Costs - Maintenance					\$357,511.00			
	Subtotal 1					\$472.0E6.E6			
		5%	1/-		-	\$472,056.56			
		1 370	7/-			\$24,000.00			
		1 1 1 1 1 1 1 1 1 1) to NITO / lub.	2020)	·	\$496,056.56			
		1		, 2020)		\$0.00			
			per year for		montns.	\$400 050 50			
						\$496,056.56			
		076	+/-			\$43,943.44			
		00/				\$540,000.00			
		ia competition			ļ				
					 	\$540,000.00			
		ļ				\$540,000.00			
		18%	+/-			\$90,000.00			
		<u> </u>				\$630,000.00			
		25%	+/-			\$160,000.00			
and Closeout ~ 1%)									
	CONSTRUCTION COST			····		\$790,000.00			
				-					
				PRIC					
		BY gry the CHECKE			CHECKED	12 11-1			
nik	Stephen Latham	∫ Greg Akins <			Den (el // 6/15/11				
ATE PREPARED PEER REVIEW / DATE 3/24/11 Tom Hepler P.E. 3/25/11			DATE PREPARED			PEER REVIEW / DATE			
	Klam Partia Copc Most Life C Sum	Periodic Costs - Year 1 Periodic Costs - Year 17 Periodic Costs - Year 25 Periodic Costs - Year 33 Periodic Costs - Year 50 (Assumes gov't service / construction contracts) Annual Costs - Maintenance Subtotal 1 Mobilization Subtotal 1 with Mobilization Escalation to Notice to Proceed (NTP): from Unit Price Lev a Subtotal 2 = Subtotal 1 with Mobilization + Escalation to N Design Contingencies Subtotal 3 = Subtotal 2 + Design Contingencies Allowance for Procurement Strategies (APS) Type of solicitation assumed is: Full and open sealed b Subtotal 4 = Subtotal 3 + APS CONTRACT COST Construction Contingencies FIELD COST Non-Contract Costs (Environmental Cultural / Mitigation ~ 5%, Engineering Design ~ 4%, Maintenance Service Contract ~ 4% Procurement ~ 1%, Inspections ~ 10% and Closeout ~ 1%) CONSTRUCTION COST Ref.: For appropriate use and terminology, see Reclamation Ma QUANTITIES CHECKED Stephen Latham PEEP REVIEW / DATE	Klamath River Dams Removal Partial Removal Option Copco No. 1 Dam & Powerplant Removal Most Probable Low- Escalation NOT Incuded Life Cycle - 50 Year Summary DESCRIPTION DESCRIPTION CODE Periodic Costs - Year 1 Periodic Costs - Year 17 Periodic Costs - Year 25 Periodic Costs - Year 33 Periodic Costs - Year 33 Periodic Costs - Year 36 (Assumes gov't service / construction contracts) Annual Costs - Maintenance Subtotal 1 Mobilization Subtotal 1 with Mobilization Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010 at Subtotal 2 = Subtotal 1 with Mobilization + Escalation to NTP Design Contingencies Subtotal 3 = Subtotal 2 + Design Contingencies Allowance for Procurement Strategies (APS) Type of solicitation assumed is: Full and open sealed bid competition Subtotal 4 = Subtotal 3 + APS CONTRACT COST Construction Contingencies (Environmental Cultural / Mitigation ~ 5%, Engineering Design ~ 4%, Maintenance Service Contract ~ 4% Procurement - 1%, Inspections ~ 10% and Closeour ~ 1%) CONSTRUCTION COST CHECKED Stephen Latham PREPARED PEER REVIEW / DATE DATE PRI	Klamath River Dams Removal Partial Removal Option Copco No. 1 Dam & Powerplant Removal Most Probable Low- Escalation NOT Incuded FILE: Usuant Presented 1NO Escalation NOT Incuded DESCRIPTION CODE QUANTITY Periodic Costs - Year 1 Periodic Costs - Year 17 Periodic Costs - Year 25 Periodic Costs - Year 33 Periodic Costs - Year 33 Periodic Costs - Year 50 (Assumes gov't service / construction contracts) Annual Costs - Maintenance Subtotal 1 Mobilization Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July at periodic Costs - Sear 17) Design Contingencies Allowance for Procurement Strategies (APS) Type of solicitation assumed is: Full and open sealed bid competition Subtotal 1 = Subtotal 2 + Design Contingencies Allowance for Procurement Strategies (APS) Type of solicitation assumed is: Full and open sealed bid competition Subtotal 4 = Subtotal 3 + APS CONTRACT COST Construction Contingencies PRELD COST Non-Contract Costs (Environmental Cultural / Mitigation ~ 5%, Engineering Design ~ 4%, Maintenance Service Contract ~ 4% Procurement ~ 1%, Inspections ~ 10% and Closeout ~ 1%) CONSTRUCTION COST Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards (CHECKED) Stephen Latham PREPARED PEER REVIEW / DATE DATE PREPARED	Klamath River Dams Removal Partial Removal Option Copco No. 1 Dam & Powerplant Removal Most Probable Low- Escalation NOT Incuded Life Cycle - 50 Year Summary DESCRIPTION DESCRIPTION CODE OUANTITY Periodic Costs - Year 17 Periodic Costs - Year 17 Periodic Costs - Year 25 Periodic Costs - Year 33 Periodic Costs - Year 39 Periodic Costs - Year 39 Periodic Costs - Year 30 Annual Costs - Maintenance Subtotal 1 Mobilization Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020) Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July,	Klamath River Dams Removal Partial Removal Option Copco No. 1 Dam & Powerplant Removal Most Probable Low- Escalation NOT incuded Life Cycle - 50 Year Summary DESCRIPTION DESCRIPTION DESCRIPTION CODE QUANTITY Periodic Costs - Year 1 Periodic Costs - Year 17 Periodic Costs - Year 25 Periodic Costs - Year 33 Periodic Costs - Year 33 Periodic Costs - Year 33 Periodic Costs - Year 30 (Assumes gov't service / construction contracts) Annual Costs - Maintenance Subtotal 1 Mobilization Escalation to Notic to Proceed (NTP): from Unit Price Level (Luly, 2010) to NTP (July, 2020) Bescalation to Notic to Proceed (NTP): from Unit Price Level (Luly, 2010) to NTP (July, 2020) Subtotal 1 subtotal 2 - Subtotal 1 with Mobilization + Escalation to NTP Design Contingencies Allowance for Procurement Strategies (APS) Type of solicitation assumed is: Full and open sealed bid competition Subtotal 3 - Subtotal 3 + APS CONTRACT COST Construction Contingencies Ref. For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC, 09-01, 09-02 and Construction Costs PRICES PRICE			